These and many other objects and advantages of the present invention will be readily apparent to one skilled in the art to which the invention pertains from a perusal of the claims, the appended drawings, and the following detailed description of the preferred embodiments.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1a is a schematic illustration of a single ended halogen lamp.

Figure 1b is a schematic illustration of a double ended halogen lamp.

Figure 2a is a schematic illustration of one embodiment of a single ended halogen lamp having a pellet according to the present invention mounted within the light emitting chamber of the lamp.

Figure 2b is a schematic illustration of another embodiment of a single ended halogen lamp having a pellet according to the present invention mounted within the light emitting chamber of the lamp.

Figure 2c is a schematic illustration of yet another embodiment of a single ended halogen lamp having a pellet according to the present invention mounted within the light emitting chamber of the lamp.

Figure 3 is a graphical illustration showing the weight loss by sublimation of rhenium tribromide from a pellet formed according to Example 1.

Figure 4 is a graphical illustration showing the weight loss by sublimation of rhenium tribromide from a pellet formed according to Example 2.

Figure 5 is a graphical illustration showing the weight loss by sublimation of rhenium tribromide from a pellet formed according to Example 3.

Figure 6 is a graphical illustration showing the weight loss by sublimation of rhenium tribromide from a pellet formed according to Example 4.

DESCRIPTION OF PREFERRED EMBODIMENTS

Figures 1a and 1b illustrate typical tungsten halogen lamps. With reference to Figure 1a, the lamp 10 includes an outer lamp envelope 12 of light transmitting material which is hermetically sealed by a single pinch seal 14 to form the light emitting chamber 16. Such a lamp with a single pinch seal is known as a single ended halogen lamp. The tungsten filament 18 is mounted internally of the chamber 16 and is electrically connected to leads 19 which each provide an electrical connection to the exterior of the chamber 16 through foils 21 and outer leads 23.

With reference to Figure 1b, the lamp 20 includes the outer lamp envelope 22 which is hermetically sealed by a pinch seal 24 at each end thereof to form the light emitting chamber 26. Such a lamp having a pinch seal at each end thereof is known as a double ended halogen lamp. The tungsten filament 28 is mounted internally of the chamber 26 and is electrically connected to leads 29 which each provide an electrical connection to the exterior of the chamber 26.

The lamps 10,20 are illuminated by heating the filaments 18,28 to incandescence by the passage of electrical current therethrough.